

CLAIMS

1/ Cathode ray tube comprising:

5 - a front face (1) on which a luminophore screen (11) is arranged
on its internal part,

 - a rear part in the form of a funnel (30) terminating in a
cylindrical part (31) in which an electron gun (40) extends in the direction of
the longitudinal axis Z of the tube, axis passing through the centre of the front
face,

10 - a colour selection mask (21) formed by stamping and
presenting a peripheral flange folded in a direction noticeably parallel to the
longitudinal axis

 - a frame (122) designed to hold the mask at a distance from the
screen, the said frame of a noticeably rectangular form has at least one pair
15 of parallel sides (120) of a noticeably L-shaped cross-section with a lateral
flank extending in a direction parallel to the longitudinal axis connected to a
flange (125) noticeably perpendicular to the said longitudinal axis

 the said frame being characterized in that the said L-shaped cross-
section sides are the short sides of the frame and in that the width of the
20 flange of each short side is smaller in the middle of the side than at its
extremities so that the inner edge (130) of the flange defines a curve whose
concavity is oriented toward the longitudinal axis of the tube

25 2/ Cathode ray tube according to claim 1 characterized in that the
long sides of the frame comprise an L-shaped cross-section and in that the
width of the flange (125') of each long side is greater in the middle of the said
side than at its extremities

30 3/ Cathode ray tube according to claim 2 characterized in that the
inner edge (127) of the said flange defines a curve whose concavity is
oriented outwards from the frame.

4/ Cathode ray tube according to the claim 1 characterized in that the mask is made of steel

5 5/ Cathode ray tube according to claim 2 characterized in that the weight of the frame is less than two times the weight of the mask.

6/ Cathode ray tube according to claim 1 characterized in that the connecting edge (131) of the flange (125) to the lateral flank defines a curve whose concavity is oriented toward the longitudinal axis of the tube
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7/ Cathode ray tube according to claim 1 characterized in that the frame/mask assembly is held inside the tube by a support means at the corners (140) of the frame.

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